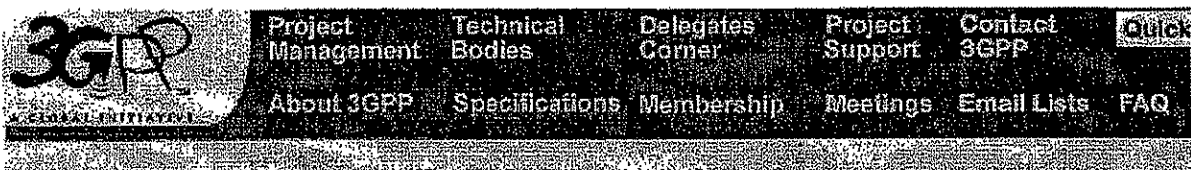


EXHIBIT E

**THIS EXHIBIT HAS BEEN
REDACTED IN ITS ENTIRETY**

EXHIBIT F



☒ only search 3GPP site

About 3GPP

[Conferences](#) | [Structure](#) | [Legal Issues](#) | [3GPP Working Procedures](#)

The 3rd Generation Partnership Project (3GPP) is a collaboration agreement that was established in December 1998. The collaboration agreement brings together a number of telecommunications standards bodies which are known as "Organizational Partners". The current Organizational Partners are ARIB, CCSA, ETSI, ATIS, TTA, and TTC.

The establishment of 3GPP was formalized in December 1998 by the signing of the "The 3rd Generation Partnership Project Agreement".

The original scope of 3GPP was to produce globally applicable Technical Specifications and Technical Reports for a 3rd Generation Mobile System based on evolved GSM core networks and the radio access technologies that they support (i.e., Universal Terrestrial Radio Access (UTRA) both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes). The scope was subsequently amended to include the maintenance and development of the Global System for Mobile communication (GSM) Technical Specifications and Technical Reports including evolved radio access technologies (e.g. General Packet Radio Service (GPRS) and Enhanced Data rates for GSM Evolution (EDGE)).

The discussions that led to the signing of the 3GPP Agreement were recorded in a series of slides called the "Partnership Project Description" that describes the basic principles and ideas on which the project is based. The Partnership Project Description has not been maintained since it's first creation but the principles of operation of the project still remain valid.

In order to obtain a consolidated view of market requirements a second category of partnership was created within the project called "Market Representation Partners".

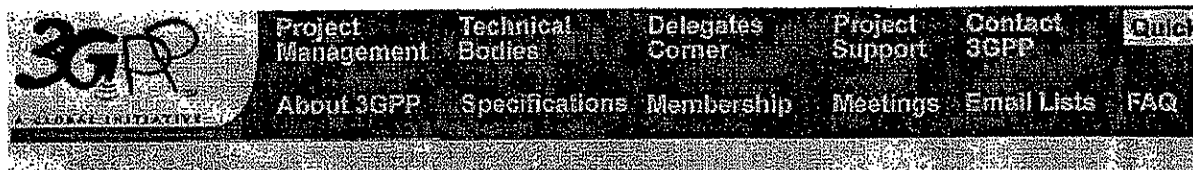
"Observer" status is also possible within 3GPP for those telecommunication standards bodies which have the potential to become Organizational Partners but which, for various reasons, have not yet done so.

A permanent project support group called the "Mobile Competence Centre (MCC)" has been established to ensure the efficient day to day running of 3GPP. The MCC is based at the ETSI headquarters in Sophia Antipolis, France.

If you require any further information, this may be obtained from "3GPP Contact"

Last update:
 2006-04-24: link to Structure page corrected, link to obsolete TB Officials page deleted; direct link to zip file of Working Procedures removed
 2004-04-13

EXHIBIT G



3GPP Legal Issues

Conferences | Structure | Legal issues | Call for IPRs | 3GPP Working Procedures | Use of 3GPP logo | Copyright authorizations

Legal Status

The Partnership Project is not a legal entity but is a collaborative activity between the following recognized Standards Development Organizations:

- ARIB - (Japan)
- ATIS - (US)
- CCSA - (China)
- ETSI - (Europe)
- TTA - (Korea)
- TTC - (Japan)

The Partnership Project is entitled the "THIRD GENERATION PARTNERSHIP PROJECT" and may be known by the acronym "3GPP".

Copyright Authorization

Interested in using 3GPP specifications or other material in your company training or for conference presentations, educational journal articles, etc?

If so please fill in this ONLINE FORM automatically submitted or this Word document and return it to the address shown on the form

For further information please contact the ETSI Legal Advisor or 3GPPContact.

IPR declarations

The Project Coordination Group (PCG) is responsible for maintaining a register of IPR declarations relevant to 3GPP, received by the Organizational Partners.

Individual Members should declare, to their Organizational Partners, any IPRs which they believe to be essential, or potentially essential, to any work ongoing within 3GPP.

During each 3GPP meeting (TSG and WGs) a call for IPRs must be made by the Chairman. The phrase to be used by the Chairman and the text to be used in the meeting report may be found here : www.3gpp.org/legal/IPR.htm

For further information please contact the PCG Secretary , Adrian Scrase

List of IPR declarations sorted by Organizational Partners:

ARIB	CCSA	ETSI	ATIS	TTA	TTC
STD-T63 "IMT-2000	-	ETSI IPR database	ATIS Patent Policy	-	3GPP

3GPP Legal Issues

Page 2 of 2

DS-CDMA System 					
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Last update:

2006-03-09 Legal Advisor Link updated - World document updated
2005-05-12: Copyright online for link added
2005-05-11: ATIS link updated
2005-01-31: 3GPPContact added in addition to ETSI Legal Advisor for copyright matters.
2005-01-05

EXHIBIT H

**THIS EXHIBIT HAS BEEN
REDACTED IN ITS ENTIRETY**

EXHIBIT I

**THIS EXHIBIT HAS BEEN
REDACTED IN ITS ENTIRETY**

EXHIBIT J

Search IPR Declarations

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Selected by

- Country of Registration: UNITED STATES
- Project: ALL
- Countries applicable: UNITED STATES
- Company: Nokia Corporation
- Etsi deliverable or Work Item: 3GPP

Sorted by Project (ascending)

47 IPR Declarations found, displaying 1 to 10 Go to page View 10

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date		
Nokia Corporation		90/573105	3GPP TS 44.160 ETSI TS 144 160 3GPP TS 44.060 ETSI TS 144 060			GSM	2003-01-08		

Patent title

METHOD AND APPARATUS FOR MULTIPLEXING A PLURALITY OF DATA CONNECTIONS ONTO ONE TEMPORARY BLOCK FLOW

Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

Notes

The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date		
Nokia Corporation		09/844879	3GPP TS 09.60 ETSI TS 101 347 ETSI EN 301 347			GSM	2003-01-08		

☐ Patent title
METHOD AND SYSTEM FOR RESTORING A SUBSCRIBER CONTEXT

☐ Country of registration Countries applicables to App./Patent
UNITED STATES UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		09/476404	3GPP TS 45.001 ETSI TS 145 001 3GPP TS 45.010 ETSI TS 145 010 3GPP TS 45.002 ETSI TS 145 002			GSM	2003-01-08

☐ Patent title
WIRELESS TELECOMMUNICATIONS SYSTEM EMPLOYING DYNAMIC MULTISLOT CLASS

☐ Country of registration Countries applicables to App./Patent
UNITED STATES UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		09/884678	3GPP TS 05.08 ETSI TS 100 911		8.7.1 8.7.1	GSM	2003-01-08

☐ Patent title
METHOD AND APPARATUS FOR PERFORMING NEIGHBOR CELL SIGNAL STRENGTH MEASUREMENTS FOR DISCONTINUOUSLY TRANSMITTING BROADCAST CARRIERS

☐ Country of registration Countries applicables to App./Patent
UNITED STATES UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation	6456237	10/200930	3GPP TS 03.71 ETSI TS 101 724		7.9.0 7.9.0	GSM	2003-01-08

☐ Patent title

TRACKING OF REAL TIME AND OBSERVED TIME DIFFERENCE VALUES IN TIME

☐ Country of registration **Countries applicables to App./Patent**
 UNITED STATES UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		09/677114	3GPP TS 03.71 ETSI TS 101 724		7.9.0 7.9.0	GSM	2003-01-08

☐ Patent title

TRACKING OF REAL TIME AND OBSERVED TIME DIFFERENCE VALUES IN TIME

☐ Country of registration **Countries applicables to App./Patent**
 UNITED STATES UNITED STATES

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		09/997200	3GPP TS 23.002 ETSI TS 123 002			GSM	2003-01-08

☐ Patent title

TRANSMISSION AND INTERCONNECTION METHOD

☐ Country of registration **Countries applicables to App./Patent**
 UNITED STATES UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		09/406209	3GPP TS 44.018 ETSI TS 144 018 3GPP TS 48.008 ETSI TS 148 008		4.11.0 4.11.0 4.7.0 4.7.0	GSM	2003-01-08

☐ Patent title

INTER-SYSTEM HANDOVER

☐ Country of registration **Countries applicables to App./Patent**
 UNITED STATES UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/> <input type="checkbox"/>
Nokia Corporation		09/845823	3GPP TS 45.001		5.3.0	GSM	2003-01-08	
			ETSI TS 145 001		5.3.0			
			3GPP TS 45.003		5.5.0			
			ETSI 145 003 3GPP TS 45.008		5.5.0			
			ETSI TS 145 008					

☐ Patent title
INBAND SIGNALLING ON SACCH

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/> <input type="checkbox"/>
Nokia Corporation	5564074	471267	3GPP TS 25.331			UMTS	2002-12-19	
			3GPP TS 25.224					

☐ Patent title
POWER CONTROL CIRCUIT FOR A RADIO TELEPHONE

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

Notes

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Selected
by

- Country of Registration: UNITED STATES
- Project: ALL
- Countries applicable: UNITED STATES
- Company: Nokia Corporation
- Etsi deliverable or Work Item: 3GPP

Sorted by Project (ascending)

47 IPR Declarations found, displaying 11 to 20 Go to page View 10

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date
Nokia Corporation		09/954370	3GPP TS 29.061			UMTS	2002-12-19

Patent title

IP-M CONTEXT FOR GPRS

Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

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Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date
Nokia Corporation		09/759776	3GPP TS 25.224 3GPP TS 25.221			UMTS	2002-12-19

Patent title

COMBINED CELL MEASUREMENT REFERENCE AND PAGING INDICATOR INUTRA TDD

Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

Notes

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IPR in ETSI Deliverables

Page 2 of 4

extent that the IPRs remain ESSENTIAL

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Nokia Corporation		09/406209	3GPP TS 25.413 3GPP TS 25.331			UMTS	2002-12-19		
<input type="checkbox"/> Patent title INTER-SYSTEM HANDOVER									
<input type="checkbox"/> Country of registration UNITED STATES		Countries applicables to App./Patent UNITED STATES							

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation		PCT/FI01/00450	3GPP TS 25.433 3GPP TS 25.225 3GPP TS 25.331			UMTS	2002-12-19		
<input type="checkbox"/> Patent title METHOD FOR POWER PRE-EQUALIZATION IN TDD SYSTEM									
<input type="checkbox"/> Country of registration UNITED STATES		Countries applicables to App./Patent UNITED STATES							

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation		09/830781	3GPP TS 25.413 3GPP TS 25.331			UMTS	2002-12-19		
<input type="checkbox"/> Patent title INDICATING IU SIGNALING BEARER TO THE RELEASE TO THE MOBILE STATION (MS) WHEN MS IS ACTIVE TO MORE THAN ONE CN DOMAIN									
<input type="checkbox"/> Country of registration UNITED STATES		Countries applicables to App./Patent UNITED STATES							

Notes

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IPR in ETSI Deliverables

Page 3 of 4

		OR ETSI Deliverable No.		date
Nokia Corporation	09/970091	3GPP TS 26.192	UMTS	2002-12-19

☐ Patent title

COMFORT NOISE GENERATION SYSTEM UTILIZING STATIONARITY INFORMATION OF BACKGROUND NOISE

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation	60/253170		3GPP TS 26.192			UMTS	2002-12-19		

☐ Patent title

COMFORT NOISE GENERATION SYSTEM UTILIZING STATIONARITY INFORMATION OF BACKGROUND NOISE

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

Notes

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Nokia Corporation	09/920910		3GPP TS 23.140			UMTS	2002-12-19		

☐ Patent title

INCORPORATING STREAMING WITH MMS

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

Notes

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Nokia Corporation	10/200930		3GPP TS 25.305 3GPP TS 22.071 GSM 03.71			UMTS	2002-12-19		

☐ Patent title

TRACKING OF REAL TIME AND OBSERVED TIME DIFFERENCE VALUES IN TIME

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

IPR in ETSI Deliverables

Page 4 of 4

Notes

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Nokia Corporation	6456237	09/677114	3GPP TS 25.305 3GPP TS 22.071 GSM 03.71			UMTS	2002-12-19	

☐ **Patent title**

TRACKING OF REAL TIME AND OBSERVED TIME DIFFERENCE VALUES IN TIME

☐ **Country of registration**

UNITED STATES

Countries applicables to App./Patent

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Signature **Date**

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Sorted by Project (ascending)

47 IPR Declarations found, displaying 21 to 30 Go to page View 10

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section Version	Project(s)	Declaration date
Nokia Corporation		09/971909	3GPP TS 23.140		UMTS	2002-12-19
Patent title MULTIMEDIA MESSAGING CENTER, CAPABILITIES USER PROFILE MANAGEMENT						
Country of registration UNITED STATES			Countries applicables to App./Patent UNITED STATES			

Notes

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Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section Version	Project(s)	Declaration date
Nokia Corporation		09/859671	3GPP TS 25.423		UMTS	2002-12-19
Patent title CONGESTION CONTROL ON IUR						
Country of registration UNITED STATES			Countries applicables to App./Patent UNITED STATES			

Notes

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Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date
Nokia Corporation		PCT/EP99/00452	3GPP TS 23.009			UMTS	2002-12-19
Patent title INTERWORKING BETWEEN RADIO ACCESS NETWORKS							
Country of registration UNITED STATES		Countries applicables to App./Patent UNITED STATES					
Notes The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL							

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date
Nokia Corporation		09/783917	3GPP TS 22.016			UMTS	2002-12-19
Patent title COMPATIBLE EXTENDED METHOD TO EXECUTE CHECK NUMBER CALCULATION OF IMEI							
Country of registration UNITED STATES		Countries applicables to App./Patent UNITED STATES					
Notes The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL							

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date
Nokia Corporation		09/980377	3GPP TS 25.221 3GPP TS 25.301 3GPP TS 25.302 3GPP TS 25.435 3GPP TS 25.212			UMTS	2002-12-19
Patent title HANDLING OF THE TRANSMISSION POWER IN WCDMA FORWARD ACCESS CHANNEL							
Country of registration UNITED STATES		Countries applicables to App./Patent UNITED STATES					
Notes The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL							

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date
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Nokia Corporation	09/189590	3GPP TS 25.224 3GPP TS 25.221	UMTS	2002-12-19
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☐ Patent title
PACKET RADIO TELEPHONE SERVICES

<input type="checkbox"/> Country of registration UNITED STATES	Countries applicables to App./Patent UNITED STATES
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Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation	09/997200	3GPP TS 23.002	UMTS			2002-12-19			

☐ Patent title
TRANSMISSION AND INTERCONNECTION METHOD

<input type="checkbox"/> Country of registration UNITED STATES	Countries applicables to App./Patent UNITED STATES
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Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation	09/668315	3GPP TS 22.146 3GPP TS 23.846	UMTS			2002-12-19			

☐ Patent title
SERVICES ON DEMAND IN MOBILE COMMUNICATIONS SYSTEM

<input type="checkbox"/> Country of registration UNITED STATES	Countries applicables to App./Patent UNITED STATES
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Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation	60/331391, 10/157159	3GPP TS 25.212 ETSI TS 125 212 3GPP TS 25.213 ETSI TS 125 213	UMTS			2003-06-27			

☐ Patent title
COMPACT REPRESENTATION OF MULTICODE SIGNALING IN WCDMA SYSTEMS

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Page 4 of 4

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation		PCT/EP01/03653	3GPP TS 25.413 ETSI TS 125 413			UMTS	2003-06-27		

☐ Patent title

INDICATION OF ALLOWED TARGET PLMNS TO RADIO ACCESS NETWORK

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

Notes

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Selected by

- Country of Registration: UNITED STATES
- Project: ALL
- Countries applicable: UNITED STATES
- Company: Nokia Corporation
- Etsi deliverable or Work Item: 3GPP

Sorted by Project (ascending)

47 IPR Declarations found, displaying 31 to 40 Go to page View 10

<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation		09/591679	3GPP TS 23.003 ETSI TS 123 003 3GPP TS 25.413 ETSI TS 125 413 3GPP TS 23.060 ETSI TS 123 060			UMTS	2003-06-27		

☐ **Patent title**
LOCATION MANAGEMENT IN A MOBILE TELECOMMUNICATION SYSTEM

☐ **Country of registration** **Countries applicables to App./Patent**
UNITED STATES UNITED STATES

Notes

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Nokia Corporation		09/844879	3GPP TS 29.060			UMTS	2003-06-27		

ETSI TS 129
060☐ **Patent title**
IMPROVING RESTORATION PROCEDURE BETWEEN SGSN AND GGSN☐ **Country of registration** **Countries applicables to App./Patent**
UNITED STATES UNITED STATES**Notes**

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/> <input type="checkbox"/>
Nokia Corporation		09/888884	3GPP TS 25.331 ETSI TS 125 331 3GPP TS 25.922 ETSI TS 125 922 3GPP TS 25.323 ETSI TS 125 323 3GPP TS 25.301 ETSI TS 125 301		UMTS	2003-06-27	

☐ **Patent title**
CAPACITY ALLOCATION FOR RADIO BEARERS☐ **Country of registration** **Countries applicables to App./Patent**
UNITED STATES UNITED STATES**Notes**

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/> <input type="checkbox"/>
Nokia Corporation		10/149639	3GPP TS 23.140 ETSI TS 123 140 3GPP TS 26.234 ETSI TS 126 234		UMTS	2003-06-27	

☐ **Patent title**
IMPROVED AND ENHANCED MEANS OF SUPPORT FOR STREAMING IN MMS☐ **Country of registration** **Countries applicables to App./Patent**
UNITED STATES UNITED STATES**Notes**

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Nokia Corporation		09/935212	3GPP 3GPP TS 25.214 3GPP ETSI TS 125 214: 3GPP TS 25.211 3GPP ETSI TS 125 211 3GPP 3GPP TR 25.858 3GPP ETSI TR 125 858			UMTS	2003-06-27		

☐ Patent title

CONTROL ARRANGEMENT FOR PACKET ACCESS SYSTEM

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

Notes

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Nokia Corporation		09/832051	3GPP TS 25.322 ETSI TS 125 322			UMTS	2003-06-27		

☐ Patent title

ADDITION OF THE ONE BIT RI FIELD INTO CURRENT RESET PDU AND HANDLING OF THE HFN UPON THE RESET PROCEDURE

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation		09/447988	3GPP TS 44.060 ETSI TS 144 060 3GPP TS 24.008 ETSI TS 124 008			UMTS	2003-06-27		

☐ Patent title

METHOD AND ARRANGEMENT FOR TRANSFERRING INFORMATION IN A PACKET RADIO SERVICE

☐ Country of registration

UNITED STATES

Countries applicables to App./Patent

UNITED STATES

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/> <input type="checkbox"/>
Nokia Corporation		10/048303	3GPP TS 44.060 ETSI TS 144 060			UMTS	2003-06-27	

☐ **Patent title**
MEKANISMI DOWNLINK TBF:N NOPEALLE PYSTYTYKSELLE MOBIILIN JAVERKON VÄLILLE GPRS:SSÄ

<input type="checkbox"/> Country of registration	Countries applicables to App./Patent
UNITED STATES	UNITED STATES

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/> <input type="checkbox"/>
Nokia Corporation	5862489	765265	3GPP TS 25.331 ETSI TS 125 331			UMTS	2003-06-27	

☐ **Patent title**
POWER CONTROL METHOD AND ARRANGEMENT FOR HANDOVER IN A MOBILE COMMUNICATION SYSTEM

<input type="checkbox"/> Country of registration	Countries applicables to App./Patent
UNITED STATES	UNITED STATES

Notes

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Nokia Corporation		10/179789	3GPP TS 25.323 ETSI TS 125 323			UMTS	2003-06-27	

☐ **Patent title**
SELECTION OF METHOD TO CARRY ROHC CID VALUES OVER WCDMA

<input type="checkbox"/> Country of registration	Countries applicables to App./Patent
UNITED STATES	UNITED STATES

Notes

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Selected by

- Country of Registration: UNITED STATES
- Project: ALL
- Countries applicable: UNITED STATES
- Company: Nokia Corporation
- Etsi deliverable or Work Item: 3GPP

Sorted by Project (ascending)

47 IPR Declarations found, displaying 41 to 47 Go to page View

Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date		
Nokia Corporation		09/765190	3GPP TS 23.003 ETSI TS 123 003 3GPP TS 23.060 ETSI TS 123 060			UMTS	2003-06-27		

Patent title
IPV6 ADDRESS ACQUISITION IN GPRS

Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

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Company	Patent No.	Application No.	Work Item OR ETSI Deliverable No.	Section	Version	Project(s)	Declaration date		
Nokia Corporation		08/746,746	3GPP TS 23.002 ETSI TS 123 002 3GPP TS 25.215			UMTS	2003-06-27		

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ETSI TS 125
215
3GPP TS
23.009
ETSI TS 123
009

☐ Patent title
MULTIPLE RADIO STANDARD USE

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date	<input type="checkbox"/>	<input type="checkbox"/>
Nokia Corporation		09/381334	3GPP TS 29.002 ETSI TS 129 002 3GPP TS 23.008 ETSI TS 123 008 3GPP TS 23.016 ETSI TS 123 016 3GPP TS 23.002 ETSI TS 123 002			UMTS	2003-06-27		

☐ Patent title
RADIO NETWORK ACCESS MECHANISM

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

Notes

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Nokia Corporation		10/344104	3GPP TS 29.207 ETSI TS 129 207 3GPP TS 23.207 ETSI TS 123 207			UMTS	2003-06-27		

☐ Patent title
Method and System for bearer authorization in a wireless communication network

☐ Country of registration
UNITED STATES

Countries applicables to App./Patent
UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		10/035339	3GPP TS 23.228 ETSI TS 123 228			UMTS	2003-06-27

☐ Patent title
PROVIDING MT SERVICES FOR UNREGISTERED SUBSCRIBERS IN R2000IM NETWORKS

<input type="checkbox"/> Country of registration	Countries applicables to App./Patent
UNITED STATES	UNITED STATES

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation	6243455	09/481230	3GPP TS 23.218 ETSI TS 123 218			UMTS	2003-06-27

☐ Patent title
REDUCING MESSAGE TRAFFIC IN INTELLIGENT NETWORK

<input type="checkbox"/> Country of registration	Countries applicables to App./Patent
UNITED STATES	UNITED STATES

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Nokia Corporation		09/835821	3GPP TS 24.229 ETSI TS 124 229			UMTS	2003-06-27

☐ Patent title
IPT CHARGING INTERWORKING WITH CAMEL AND SIP

<input type="checkbox"/> Country of registration	Countries applicables to App./Patent
UNITED STATES	UNITED STATES

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Selected by: • Project: ALL
• Company: Lucent Technologies Inc.

Sorted by: Project (ascending)

2 IPR Declarations found View 10

<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Lucent Technologies Inc.		n/a	ES 201 488		1.1.1	Cable Modem	2000-10-13

☐ Patent title

☐ Country of registration: UNITED STATES

Countries applicables to App./Patent

Notes

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<input type="checkbox"/> Company	<input type="checkbox"/> Patent No.	<input type="checkbox"/> Application No.	<input type="checkbox"/> Work Item OR ETSI Deliverable No.	Section	Version	<input type="checkbox"/> Project(s)	<input type="checkbox"/> Declaration date
Lucent Technologies Inc.		n/a				UMTS	1998-01-20

☐ Country of registration: Not available

Countries applicables to App./Patent

Notes

Lucent Technologies Inc. has informed ETSI that it is likely to have IPRs essential to UMTS and that it is prepared to make a license relating to the ETSI UMTS Terrestrial Radio Access Interface standard available to any qualified applicant, upon reasonable, non-discriminatory terms and conditions. Representative: Mr. P. J. Crefeld (tel: +1 908 903 6262 / fax: +1 908 903 6319) for licensing matters.

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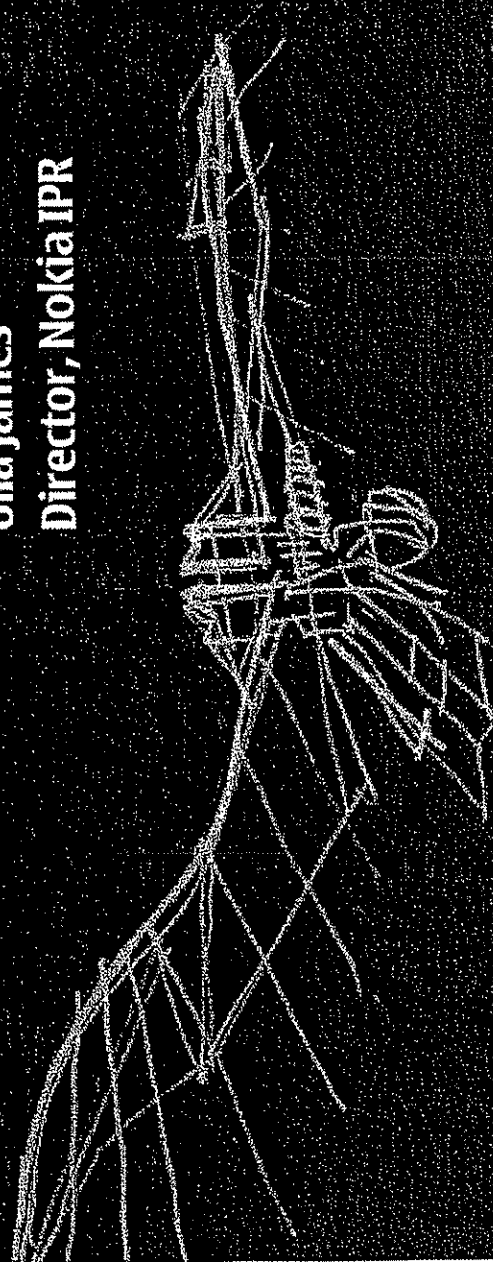
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EXHIBIT L

Nokia IPR Landscape

Nokia Technology Media Briefing
October 3-4, 2006

Ulla James
Director, Nokia IPR





Agenda

- Patents and Standards
- Development of Nokia Patent portfolio
- IPR Landscape
- How does Nokia IPR Create value?



Patents and Standards

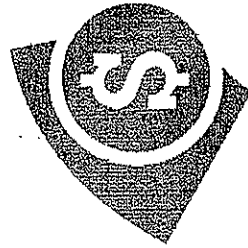




Patents

Purpose of patent:

- incentive to invent – return on R&D investment
- grants monopoly for a period of time
- worthless if not used
- defensive value:
secures freedom of action, reduces risk
- patent owner chooses if, who and on what terms to license



Implementation patents (non-essentials)

- no licensing commitments = greater freedom
- implementation patent can therefore be commercially very valuable
- majority of patent portfolio
- underpin product differentiation



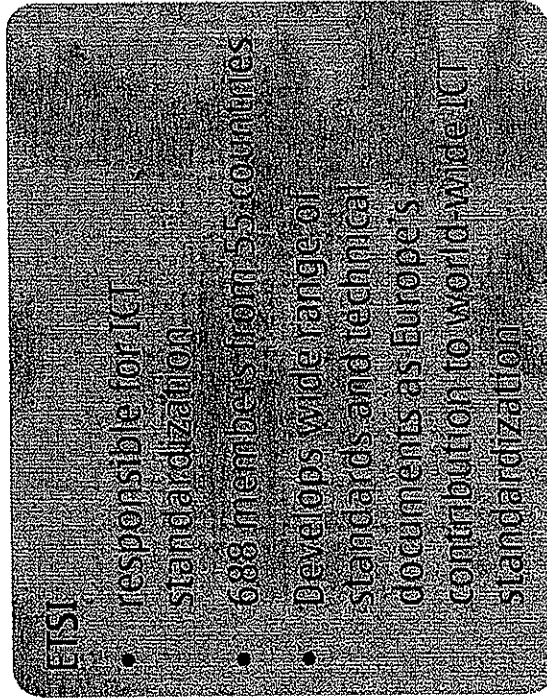
Standards and patents tradeoff

Why standards?

- interoperability
- publication of technical specification
- developed by standardisation organisations
 - Governmental/commercial bodies
 - De-facto industry standards (e.g. TCP/IP, BT)

Essential patent

- Patent included in a standard
- Standard-compliant equipment *must* be designed according to the standard using the essential patents even if there were technical and commercial substitutes (“technically essential”)
- Obligation to license to all



ETSI

- responsible for ICT standardization
- 688 members from 55 countries
- Develops wide range of standards and technical documents as Europe's contribution to world-wide ICT standardization





Standardisation organisations have agreed IPR rules

- **Patents:** promote technical development in standards
- **Basic Patent policy**
 - ETSI and other standards bodies require patent holders to disclose the patents claimed to be essential and to commit to license these patents on Fair, Reasonable and Non-discriminatory terms – so called “FRAND” terms.
- **ETSI IPR Rules:**

OBLIGATIONS

- to inform ETSI about their own and other people's Essential IPRs (4.1)
- to undertake to grant licences on fair, reasonable and non-discriminatory terms and conditions (6.1)

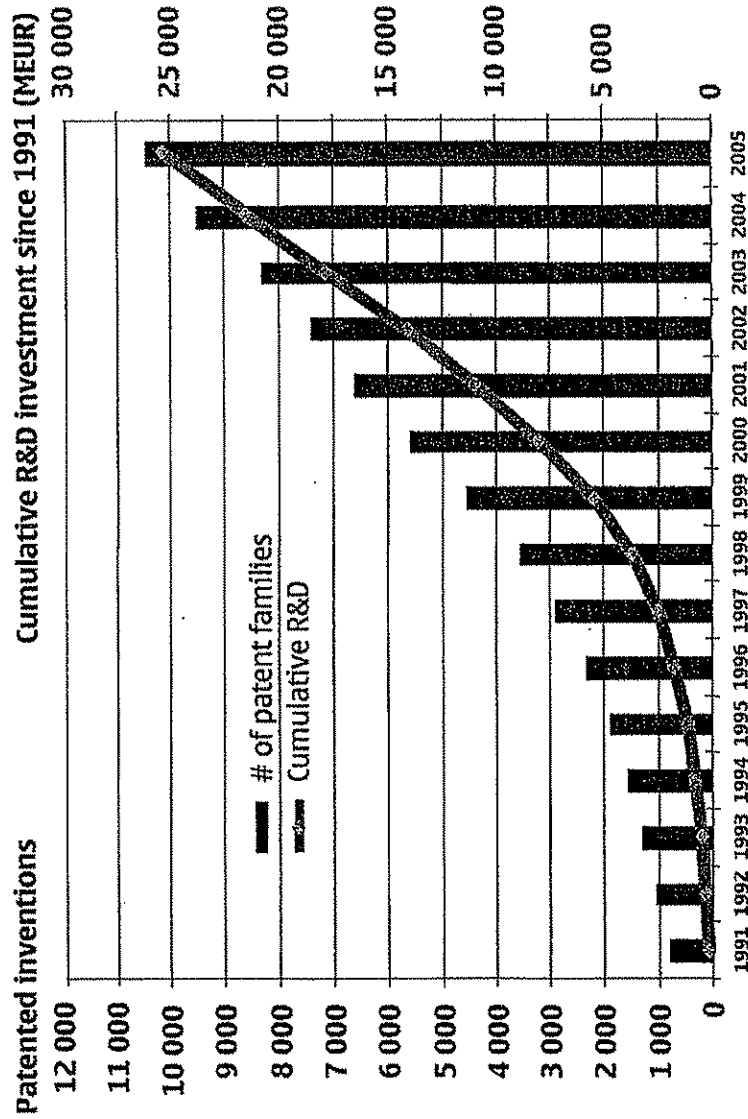
RIGHTS

- no obligation to conduct IPR searches (4.2)
- to refuse the inclusion of their IPRs in Standards (8.1 and 8.2)
- obtain licences on fair, reasonable and non-discriminatory terms and conditions (6.1)

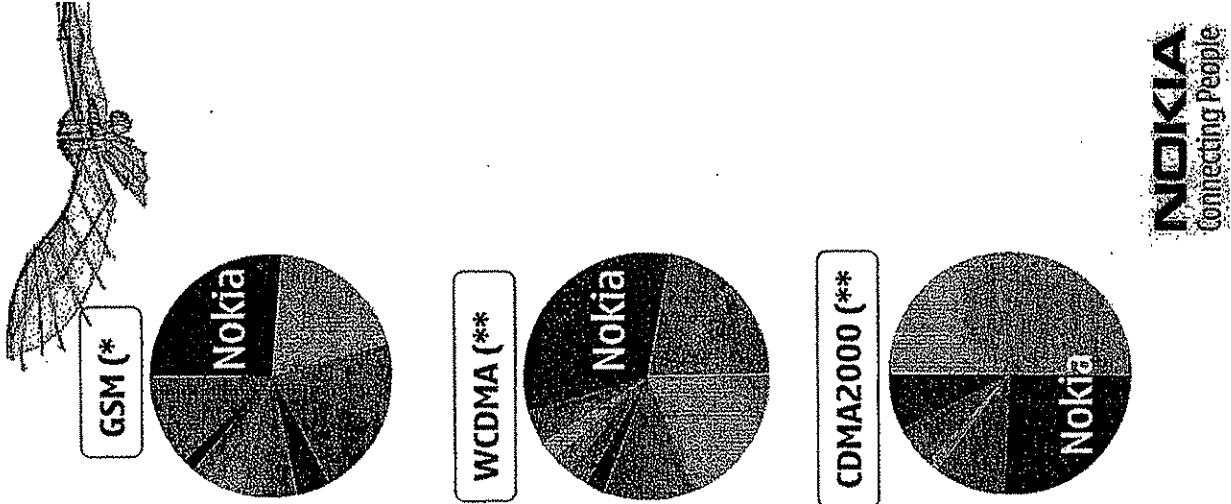
Development of Nokia Patent Portfolio



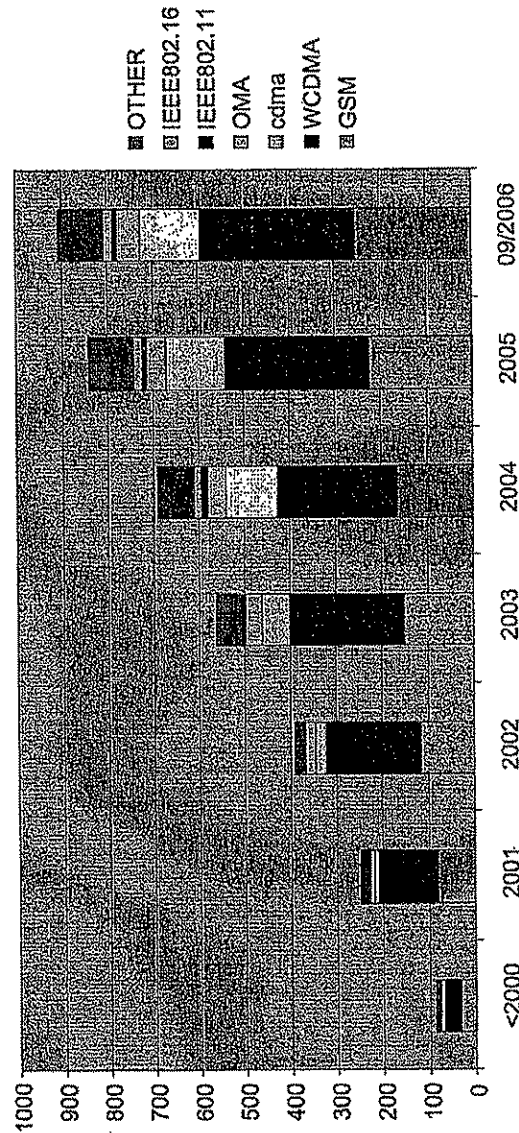
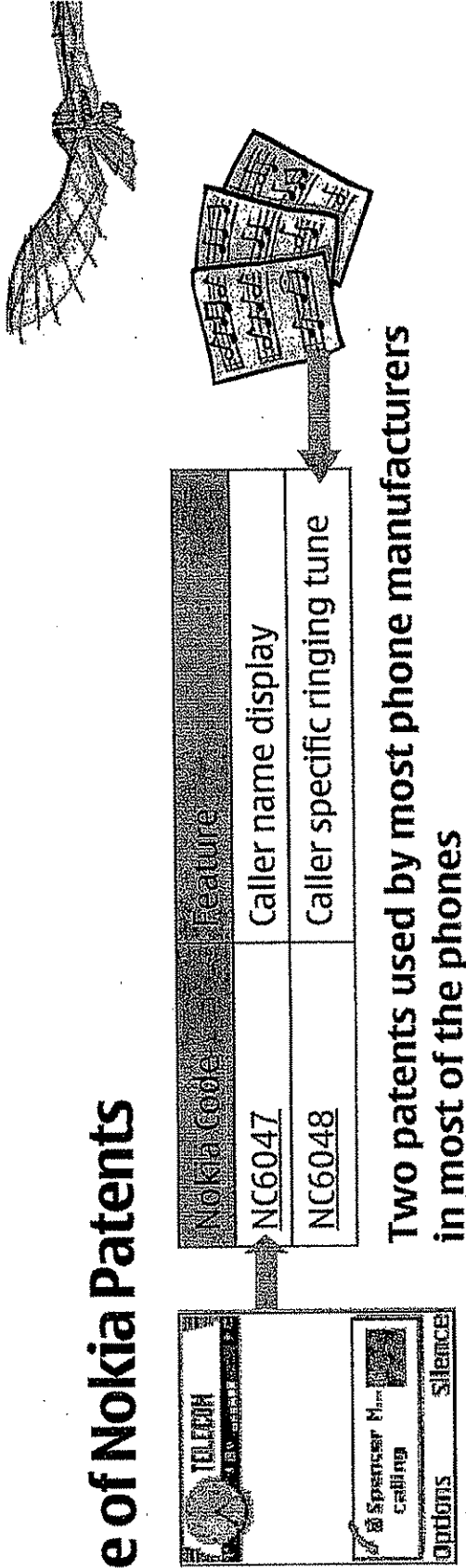
Nokia IPR portfolio and R&D investments



Sources: *) ETSI essential patent declarations **) Goodman-Myers, 2005



Use of Nokia Patents



Nokia essential patent declarations in key standards

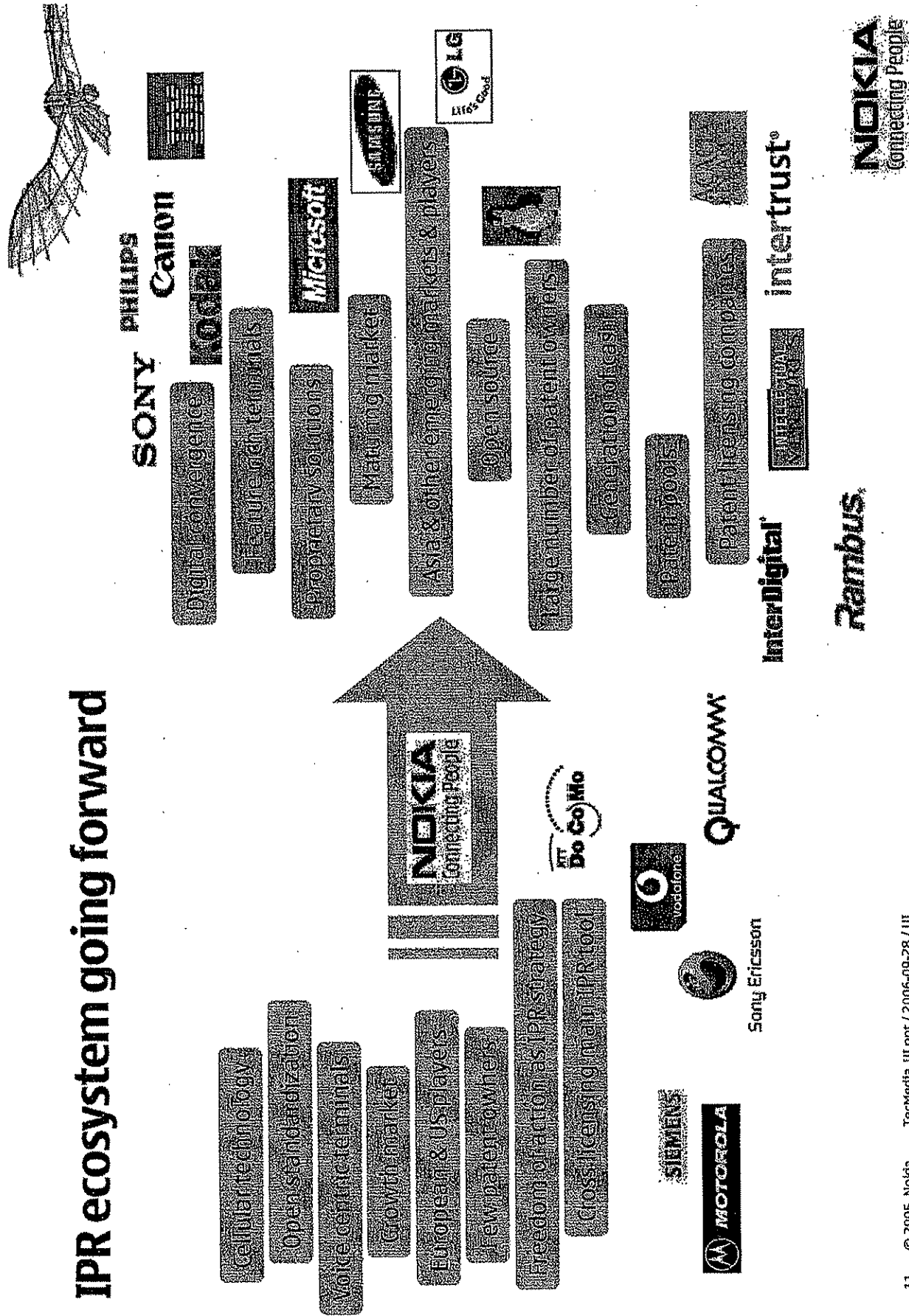
Source: Nokia declarations



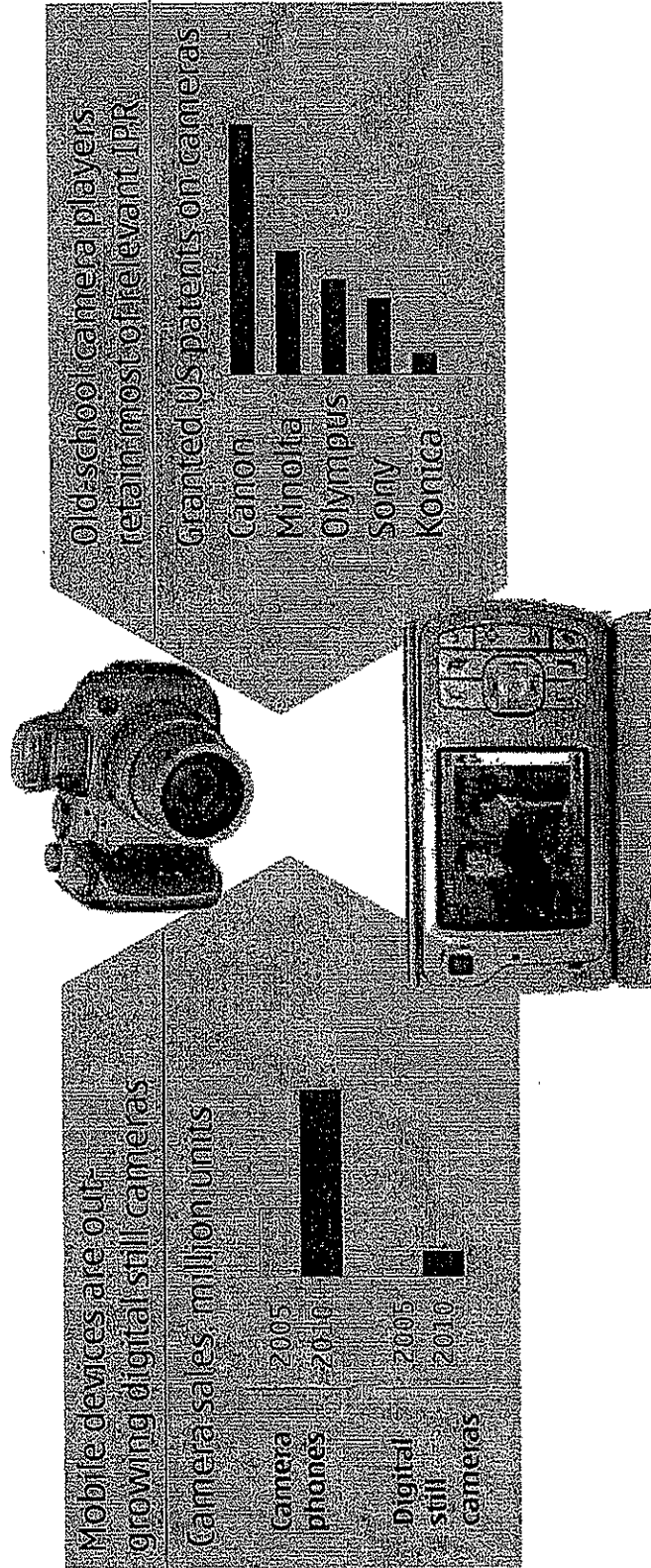
IPR Landscape



IPR ecosystem going forward



The highest volume consumer electronics industry - with increased exposure to non-telecom IPR

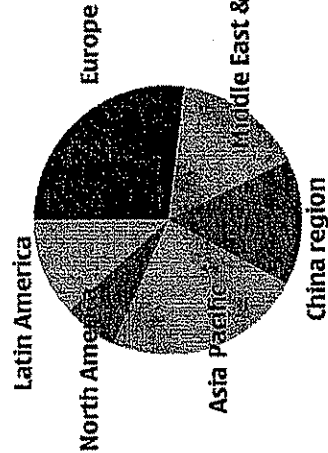
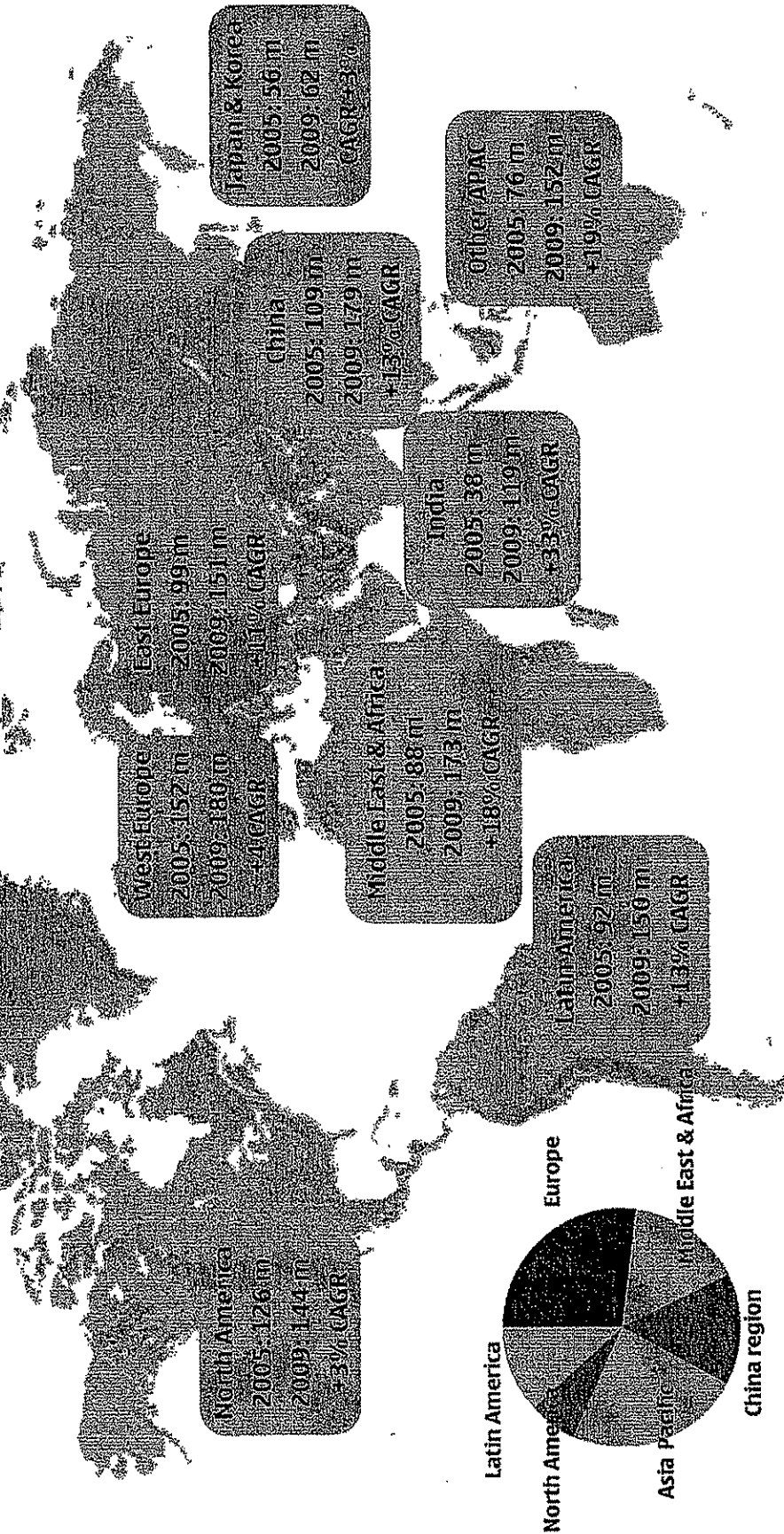


... Television, Navigation, Gaming, Video, Messaging, Fitness ...



Volumes continue to grow - driven by emerging markets

Cellular Terminal Market Volumes Bank of America, Feb 2006



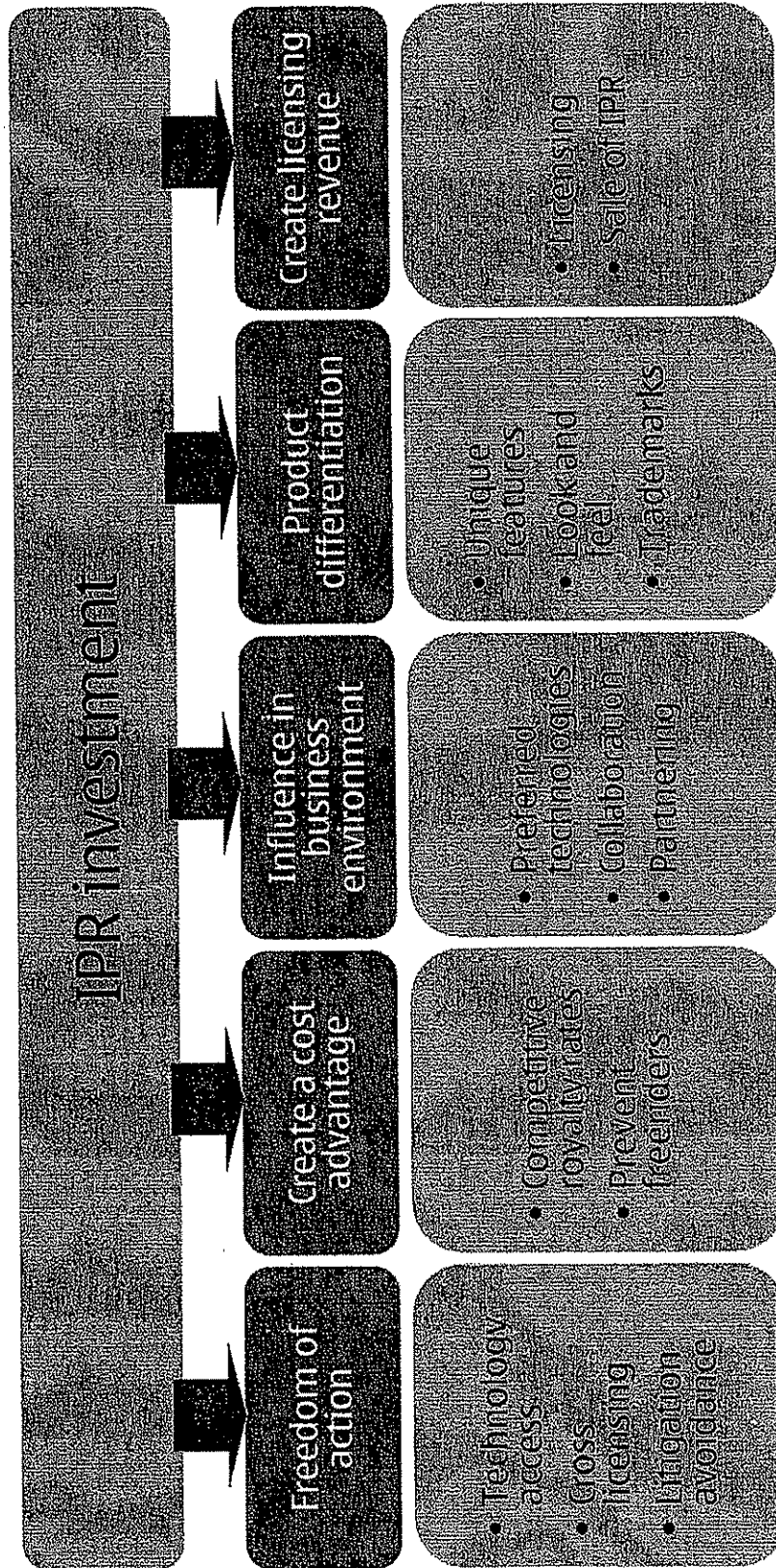
Nokia Regional Volumes 2006



How does Nokia IPR create value?

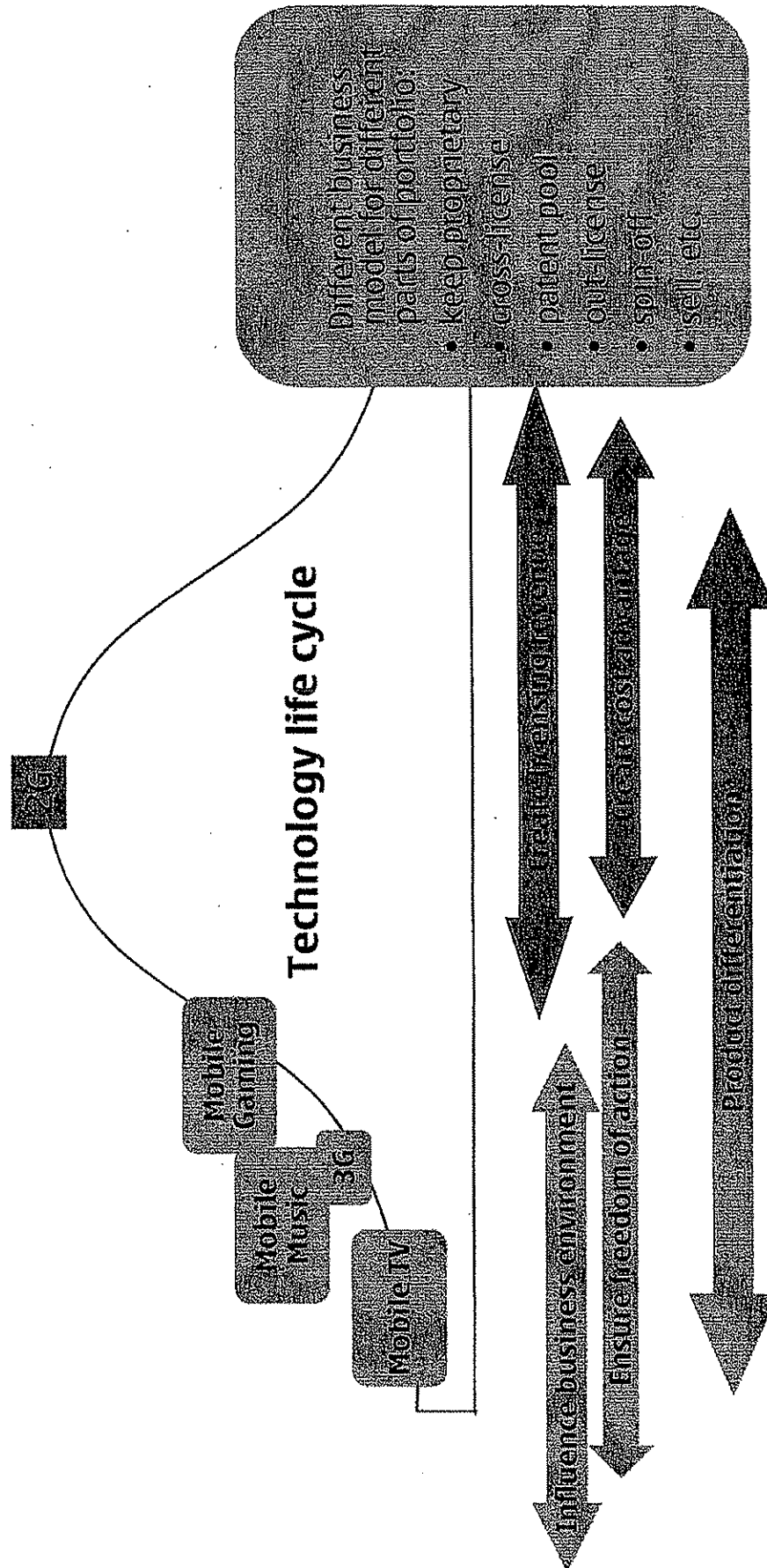


How does Nokia IPR create value?





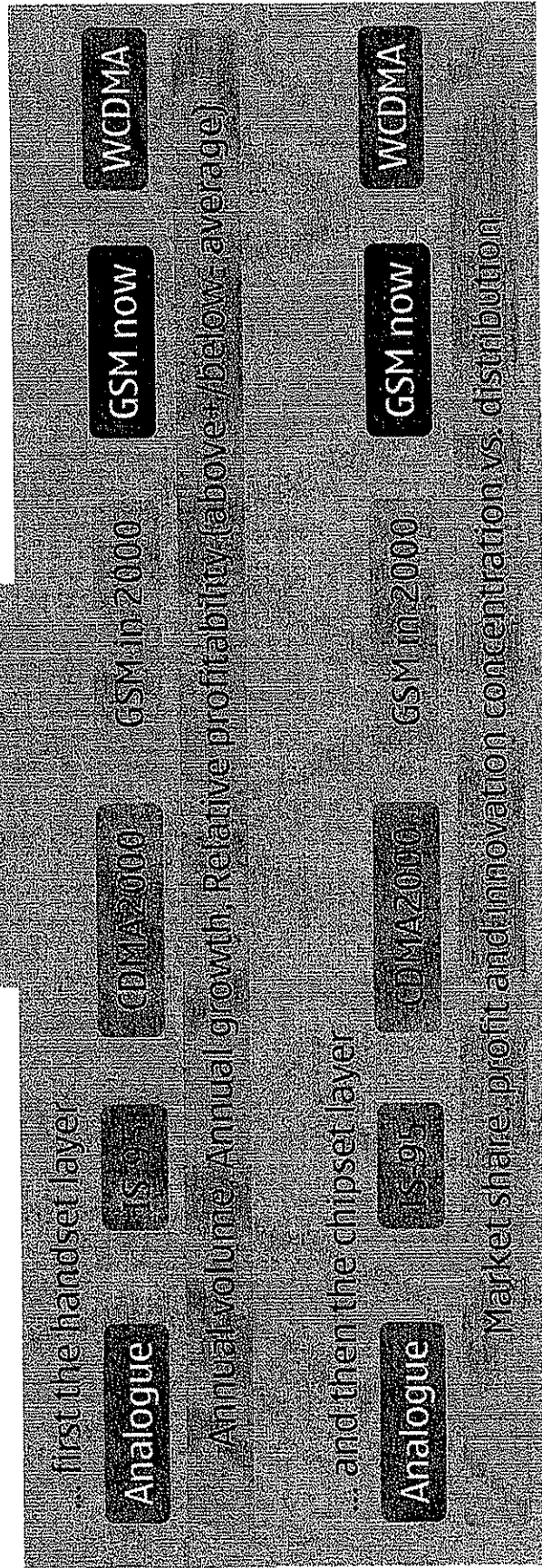
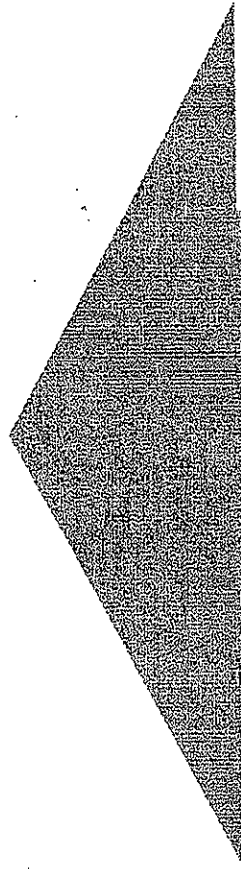
Creative combinations: Different focus for different technology phases

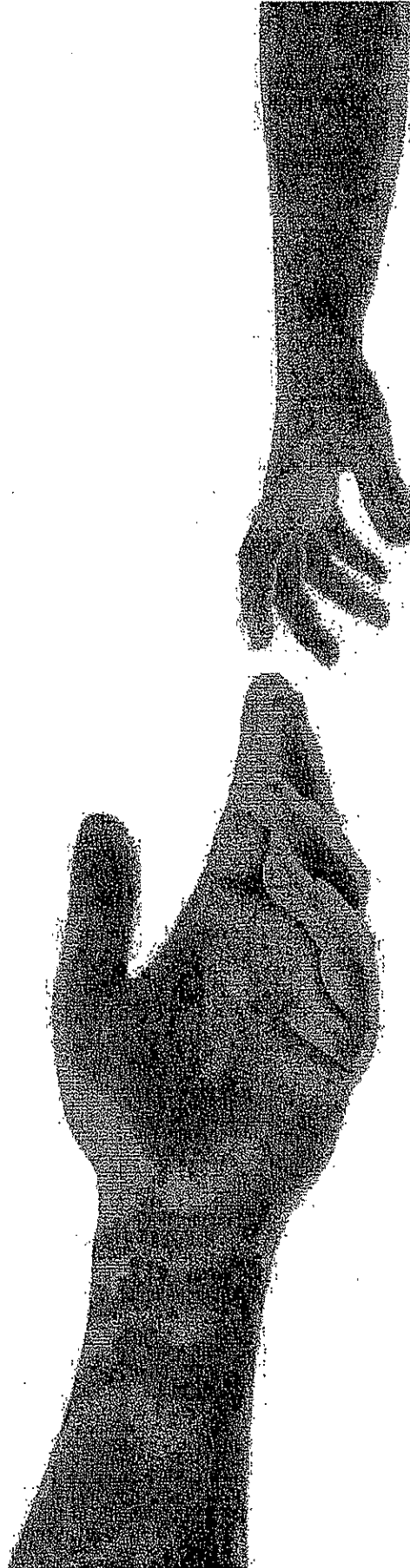


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Innovation thrives from healthy competition





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